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Forestry abstracts

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1. **Terminology.** Terms included in the *Concise Oxford Dictionary, Chamber's Dictionary of Science and Technology* and the *Terminology of Forest Science, Technology, Practice and Products* are used without explanation. Other terms from particular sciences may also be used without explanation if it is thought that they are familiar to those readers likely to be concerned.

2. **Bibliographic Citations:**

(a) Titles. Titles are given in the original language if a Latin alphabet is used. Russian (but generally not other Cyrillic alphabets) and Greek are given in standard transliterations for whole publications. English translations – often shortened – are given in square brackets.

(b) Language symbols. Capital initial letters indicate the language of the text, small letters the language(s) of the summary. The following abbreviations are used:

Af = Afrikaans	Fr = French	Nl = Dutch
Ar = Arabic	Gr = Greek	No = Norwegian
Az = Azerbaijan (i)/Azerbaidzhani/Azerbaidzhanian	He = Hebrew	Pe = Persian
	Hu = Hungarian	Pl = Polish
Be = White Russian	In = Indonesian	Pt = Portuguese
Bg = Bulgarian	Is = Icelandic	Ro = Rumanian
Ch = Chinese	It = Italian	Ru = Russian
Cs = Czech	Ja = Japanese	Sh = Serbo-Croatian
Da = Danish	Ko = Korean	Sk = Slovakian
De = German	La = Latin	Sn = Slovenian
Ee = Estonian	Li = Lithuanian	Sv = Swedish
En = English	Lv = Latvian	Ta = Tajik/Tadzhik
Es = Spanish	Ma = Macedonian	Tr = Turkish
Fi = Finnish	My = Malay/Bahasamalaysia	Uk = Ukrainian

(c) Library Source. Capital letters at the end of a reference, where present – e.g. PR, ORS, etc. – show the place where the actual publication seen by the Bureau is lodged. Where no capital letters are cited the publication is lodged in the library of the Commonwealth Forestry Institute, Oxford. The following abbreviations are used:

AH	Forestry Commission Research Station, Alice Holt Lodge, Wrecclesham, Farnham, Surrey, GU10 4LH.
APB	Commonwealth Bureau of Pastures and Field Crops, Hurley, Maidenhead, Berks SL6 5LR.
BLL	British Library Lending Division, Boston Spa, Wetherby, Yorkshire LS23 7BQ.
CFB	Commonwealth Forestry Bureau, South Parks Road, Oxford OX1 3RD.
CGB	Commonwealth Bureau of Plant Breeding and Genetics, Department of Applied Biology, Downing Street, Cambridge CB2 3BX.
CIE	Commonwealth Institute of Entomology, 56 Queen's Gate, London SW7 5JR.
CMI	Commonwealth Mycological Institute, Ferry Lane, Kew, Richmond TW9 3AF.
EMB	Commonwealth Bureau of Horticulture and Plantation Crops, East Malling Research Station, Maidstone, Kent ME19 6BJ.
HSB	Rothamsted Experimental Station, Harpenden, Herts AL5 2JQ.
IPC	Institute of Paper Chemistry, P.O. Box 1039, Appleton, Wisconsin 54911, USA.
NIAE	National Institute of Agricultural Engineering, Silsoe, Bedford, MK45 4HS.
OAEc	Agricultural Economics Research Institute, Dartington House, Little Clarendon Street, Oxford, OX1 2HS.
OBD	Dept. of Botany, South Parks Rd., Oxford, OX1 3RA.
OH	Hope Dept. of Entomology, University Museum, Parks Road, Oxford, OX1 3PW.
ORE	Department of Agriculture, Parks Road, Oxford, OX1 3PF.
ORS	Radcliffe Science Library, South Parks Road, Oxford, OX1 3QP.
OW	ARC Weed Research Organisation, Yarnton, Oxford, OX5 1PF.
OZ	Department of Zoology, Oxford, OX1 3PS.
PR	Building Research Establishment, Princes Risborough Laboratory, Aylesbury, Bucks HP17 9PX.
TRADA	Timber Research and Development Association, Hughenden Valley, High Wycombe, Bucks HP14 4ND.
X	Miscellaneous: apply to Commonwealth Forestry Bureau for details.

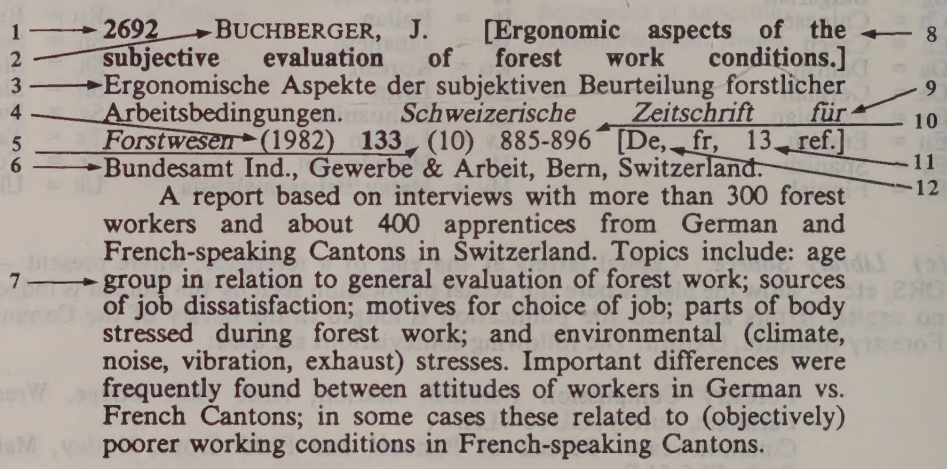
(d) Secondary Journal Source. The following abbreviations are used:

AATA	Art and Archaeology Technical Abstracts
ABIPC	Abstract Bulletin of the Institute of Paper Chemistry
CRRAGA	Countryside Recreation Research Advisory Group Abstracts
LRTA	Leisure, Recreation and Tourism Abstracts
WAERSA	World Agricultural Economics and Rural Sociology Abstracts

(e) Back references. These refer to notices in previous issues and appear in square brackets with an indication of volume and abstract number, e.g. '[see *FA 41*, 3456; *FPA 3*, 1234]'. They are occasionally given for CAB journals other than *FA* and *FPA*. The most common are:

RAE/A	Review of Applied Entomology
PBA	Plant Breeding Abstracts
RPP	Review of Plant Pathology

(f) What an abstract contains.


1 2692 BUCHBERGER, J. [Ergonomic aspects of the subjective evaluation of forest work conditions.]
2
3 Ergonomische Aspekte der subjektiven Beurteilung forstlicher
4 Arbeitsbedingungen. Schweizerische Zeitschrift für
5 Forstwesen (1982) 133 (10) 885-896 [De, fr, 13 ref.]
6 Bundesamt Ind., Gewerbe & Arbeit, Bern, Switzerland.
A report based on interviews with more than 300 forest workers and about 400 apprentices from German and French-speaking Cantons in Switzerland. Topics include: age
7 group in relation to general evaluation of forest work; sources of job dissatisfaction; motives for choice of job; parts of body stressed during forest work; and environmental (climate, noise, vibration, exhaust) stresses. Important differences were frequently found between attitudes of workers in German vs. French Cantons; in some cases these related to (objectively) poorer working conditions in French-speaking Cantons.
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(1)	Abstract number	(8)	English title
(2)	Author	(9)	Journal title
(3)	Foreign title	(10)	Page numbers
(4)	Year of publication	(11)	Supplementary data (can also include a library source as the last item, e.g. BLL)
(5)	Volume, part numbers		
(6)	Author's affiliation		
(7)	Abstract	(12)	Language of text, summary

3. **Abbreviations, units and symbols**. Standard SI symbols are used for metric units; these are not included here. Occasionally, other symbols not listed here are used when it is thought that they will present no difficulty to the readers concerned; this includes many geographical abbreviations such as ACT, UK, PA, etc.

Å	ångström
AAS	atomic absorption spectrometry
ABA	abscisic acid
a.e.	acid equivalent
AFNOR	Association Française de Normalisation
AFOCEL	Association Forêt-Cellulose
a.i.	active ingredient
alt.	altitude
approx.	approximately
ARMEF	Association pour la Rationalisation et la Mécanisation de l'Exploitation Forestière
ASTM	American Society for Testing Materials
atm	(standard) atmosphere
Aug.	August
av.	average
b.a.	basal area
bar	bar
bd ft	board feet
b.h.	breast height
BHC	benzene hexachloride
BOD	biochemical oxygen demand
BP	before present
BS(I)	British Standard(s) (Institution)
Btu	British thermal unit
c.a.i.	current annual increment
cal	calorie
CCA	copper-chrome-arsenic
c.e.c.	cation exchange capacity
Ci	curie
COD	chemical oxygen demand
coeff.	coefficient
COMECON	Council for Mutual Economic Aid
conc.	concentrated
concn.	concentration(s)
const.	constant
CSF	Canadian standard freeness
CSIRO	Commonwealth Scientific and Industrial Research Organization (Australia)
cv.	cultivar
d.b.h.	diameter at breast height
DDT	dichlorodiphenyltrichloroethane
diam.	diameter
DIN	Deutsches Institut für Normung
dil.	dilute
DM	dry matter
DMSO	dimethyl sulphoxide
E.	east
ECE	Economic Commission for Europe
EC	European Communities
EM	electron microscope
e.m.c.	equilibrium moisture content
EPR	electron paramagnetic resonance
equiv.	equivalent
ESR	electron spin resonance
et al.	and others
F	filial generation
°F	degree Fahrenheit
FAO	Food and Agriculture Organization
Feb.	February
f.sp.	special form
ft	foot/feet
GA	gibberellic acid
gal	gallon (Imperial or US)
GC	gas chromatography
GOST	Gosudarstvennyĭ Obshchesoyuznyĭ Standart
h	hour
ha	hectare
hp	horse power
ht.	height
IAA	indoleacetic acid
IB	internal bond
IBA	indolebutyric acid
IBP	International Biological Programme
IR	infrared
ISO	International Organization for Standardization
IUFRO	International Union of Forestry Research Organizations
Jan.	January
kgf	kilogramme-force
lat.	latitude
lb	pound (weight)
lbf	pound-force
LC	lethal concentration
LD	lethal dose
long.	longitude
LVL	laminated veneer lumber
M	molar
m.a.i.	mean annual increment
max.	maximum
mbar	millibar
m.c.	moisture content
MDF	medium density fibreboard
min	minute (time)
min.	minimum
ml	millilitre
MMA	methyl methacrylate
MOE	modulus of elasticity
mol	mole
mol.	molecular
MOR	modulus of rupture
N.	north
NAA	naphthyl acetic acid
NE	north-east
NMR	nuclear magnetic resonance
Nov.	November
n.s.d.	no significant difference; not significantly different
NSSC	neutral sulphite semi-chemical
NW	north-west
o.b.	over bark
Oct.	October
OECD	Organization for Economic Cooperation and Development
opt.	optimum
OSB	oriented structural board
oz	ounce
P	probability
p.a.	per annum
p.a.i.	periodic annual increment
PCP	pentachlorophenol
PEG	polyethylene glycol
PF	phenol formaldehyde
p.p.	partly, in part
p.p.m.	parts per million
p.p.t.	parts per thousand
PVA	polyvinyl acetate
PVC	polyvinyl chloride
R	röntgen
r	coefficient of correlation
rad	rad
RF	resorcinol formaldehyde
RH	relative humidity
r.p.m.	revolutions per minute
S.	south
s.d.	standard deviation
SE	south-east
SEM	scanning electron microscope
Sept.	September
sig.	significant(ly)
s.l.	in a broad sense
sol.	solution(s)
sp.	species
sp.nov.	new species
s.s.	in a narrow sense
ssp.	subspecies
SW	south-west
syn.	synonym
t	tonne (not ton)
TCA	trichloroacetic acid
TEM	transmission electron microscope
temp.	temperature(s)
t. & g.	tongued and grooved
TLC	thin-layer chromatography
u.b.	under bark
UF	urea formaldehyde
UHF	ultra high frequency
ULV	ultra low volume
UNDP	United Nations Development Programme
USDA	United States Department of Agriculture
UV	ultraviolet
var.	variety
VHF	very high frequency
viz.	namely
vol.	volume
vs.	versus
W.	west
wk	week
w.p.	wettable powder
wt.	weight
yr	year
3P	probability proportional to prediction
-- ′	minute (angle)
-- ″	second (angle)
∥	parallel
⊥	perpendicular

4. **Vernacular names.** The vernacular names listed below may be used in abstracts instead of the Latin ones. Indexing is by Latin names.

acacia	*Acacia* (see also black wattle)
alder	*Alnus*
ash	*Fraxinus* (generally *F. excelsior* unless otherwise indicated)
Austrian pine	*Pinus nigra* (also Corsican pine)
balsa	*Ochroma pyramidale*
balsam fir	*Abies balsamea*
bamboo	Bambuseae
basswood	(see linden)
beech	*Fagus* (generally *F. sylvatica* unless otherwise indicated)
birch	*Betula* (*B. alba* is used for undifferentiated *B. pendula* and *B. pubescens*)
black spruce	*Picea mariana*
black walnut	*Juglans nigra*
black wattle	*Acacia mearnsii*
broadleaf	Angiospermae (tree; see also hardwood)
cashew	*Anacardium occidentale*
chir	*Pinus roxburghii*
coconut	*Cocos nucifera*
conifer	Coniferae (see also softwood)
Corsican pine	*Pinus nigra* (also Austrian pine)
deodar	*Cedrus deodara*
dipterocarp	Dipterocarpaceae
Douglas fir	*Pseudotsuga menziesii*
eastern hemlock	*Tsuga canadensis*
eastern white pine	*Pinus strobus* (also Weymouth pine)
elm	*Ulmus*
Engelmann spruce	*Picea engelmannii*
eucalypt	*Eucalyptus*
fig	*Ficus*
fir	*Abies* (see also Douglas fir)
hardwood	Angiospermae (timber; see also broadleaf)
hazel	*Corylus avellana*
hem-fir	*Tsuga* + *Abies* (lumber)
hemlock	(see eastern, western hemlock)
hickory	*Carya*
hinoki	*Chamaecyparis obtusa*
holly	*Ilex*
hoop pine	*Araucaria cunninghamii*
hornbeam	*Carpinus betulus*
jack pine	*Pinus banksiana*
juniper	*Juniperus*
kauri	*Agathis* (*A. australis* in New Zealand)
larch	*Larix* (see also tamarack)
linden	*Tilia* (also referred to elsewhere as 'lime' and 'basswood')
loblolly pine	*Pinus taeda* (see also southern pine)
lodgepole pine	*Pinus contorta*
longleaf pine	*Pinus palustris* (see also southern pine)
mango	*Mangifera indica*
maple	*Acer*
maritime pine	*Pinus pinaster*
mulberry	*Morus*
neem	*Azadirachta indica*
Norway spruce	*Picea abies*
oak	*Quercus* (*Q. robur* s.l. is used for undifferentiated *Q. robur* and *Q. petraea*)
palm	Palmae
Parana pine	*Araucaria angustifolia*
pine	*Pinus* (see also hoop pine, Parana pine)
ponderosa pine	*Pinus ponderosa*
poplar	*Populus* (see also yellow poplar)
radiata pine	*Pinus radiata* (also referred to elsewhere as 'Monterey pine')
rattan	*Calamus* and/or *Daemonorops* (mainly)
red oak	*Quercus rubra* (northern red oak of the USA)
robinia	*Robinia pseudoacacia* (also referred to elsewhere as 'false acacia', 'locust' etc.)
rubber	*Hevea brasiliensis* (unless otherwise indicated)
sal	*Shorea robusta*
sandalwood	*Santalum album*
Scots pine	*Pinus sylvestris*
shortleaf pine	*Pinus echinata* (see also southern pine)
silver fir	*Abies alba*
Sitka spruce	*Picea sitchensis*
slash pine	*Pinus elliottii* (see also southern pine)
softwood	Gymnospermae (timber; see also conifer)
southern pine	*Pinus echinata, P. elliottii, P. palustris* and *P. taeda* (indexed as *P.* 'Southern')
spruce	*Picea*
sugar maple	*Acer saccharum*
sugi	*Cryptomeria japonica*
sweetgum	*Liquidambar styraciflua*
tamarack	*Larix laricina*
teak	*Tectona grandis*
walnut	*Juglans regia* (see also black walnut)
Weymouth pine	*Pinus strobus* (also eastern white pine)
white oak	*Quercus alba*
white spruce	*Picea glauca*
western hemlock	*Tsuga heterophylla*
willow	*Salix*
yellow poplar	*Liriodendron tulipifera* (also referred to elsewhere as 'tulip tree')
yew	*Taxus baccata* (other species by Latin names)

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Forestry abstracts

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